

AMENDMENTS TO THE CLAIMS

Claims 1-13 (Canceled)

Claim 14 (New): A crystallized glass for an optical filter substrate, which consists, as represented by mol% based on the following oxides, essentially of:

SiO ₂ :	30 to 65%,
Al ₂ O ₃ :	5 to 35%,
TiO ₂ +ZrO ₂ :	1 to 15%,
Na ₂ O:	0 to 30%,
K ₂ O:	5 to 30%, provided K ₂ O (%) ≥ Na ₂ O (%),
Li ₂ O:	0 to 15%,
MgO:	0 to 15%,
CaO:	0 to 15%,
SrO:	0 to 15%,
BaO:	0 to 15%,
ZnO:	0 to 15%,
B ₂ O ₃ :	0 to 15%,
P ₂ O ₅ :	0 to 15%,
Y ₂ O ₃ :	0 to 15%,

and which has an average linear expansion coefficient α_L of from $95 \times 10^{-7}/^{\circ}\text{C}$ to $130 \times 10^{-7}/^{\circ}\text{C}$ at from -30°C to 70°C , and which has a crystal or solid solution of $\text{Na}_{4-x}\text{K}_x\text{Al}_4\text{Si}_4\text{O}_{16}$ ($1 < x \leq 4$) precipitated therein.

Claim 15 (New): The crystallized glass for an optical filter substrate according to Claim 14, wherein MgO: 1 to 15%.

Claim 16 (New): The crystallized glass for an optical filter substrate according to Claim 14, which has an average linear expansion coefficient α_H of from $80 \times 10^{-7}/^{\circ}\text{C}$ to $155 \times 10^{-7}/^{\circ}\text{C}$ at from 190°C to 220°C .

Claim 17 (New): The crystallized glass for an optical filter substrate according to Claim 14, which has an average linear expansion coefficient α_H of from $110 \times 10^{-7}/^{\circ}\text{C}$ to $145 \times 10^{-7}/^{\circ}\text{C}$.

Claim 18 (New): The crystallized glass for an optical filter substrate according to Claim 14, which has a Young's modulus of at least 85 GPa.

Claim 19 (Original): The crystallized glass for an optical filter substrate according to Claim 14, which has an absorptivity coefficient of at most 0.03 mm^{-1} for a light having a wavelength of 1550 nm.

Claim 20 (New): An optical filter comprising
an optical filter substrate made of a crystallized glass for an optical filter substrate, which has an average linear expansion coefficient α_L of from $95 \times 10^{-7}/^{\circ}\text{C}$ to $130 \times 10^{-7}/^{\circ}\text{C}$ at from -30°C to 70°C , and which has a crystal or solid solution of $\text{Na}_{4-x}\text{K}_x\text{Al}_4\text{Si}_4\text{O}_{16}$ ($1 < x \leq 4$) precipitated therein; and
a dielectric multilayer film formed on the substrate.

Claim 21 (New): The optical filter according to Claim 20, wherein the crystallized glass consists, as represented by mol% based on the following oxides, essentially of:

SiO ₂ :	30 to 65%,
Al ₂ O ₃ :	5 to 35%,
TiO ₂ +ZrO ₂ :	1 to 15%,
Na ₂ O:	0 to 30%,
K ₂ O:	5 to 30%,
Li ₂ O:	0 to 15%,
MgO:	0 to 15%,
CaO:	0 to 15%,
SrO:	0 to 15%,
BaO:	0 to 15%,
ZnO:	0 to 15%,
B ₂ O ₃ :	0 to 15%,
P ₂ O ₅ :	0 to 15%,
Y ₂ O ₃ :	0 to 15%.

Claim 22 (New): The optical filter according to Claim 20, wherein the crystallized glass consists, as represented by mol% based on the following oxides, essentially of:

SiO ₂ :	30 to 65%,
Al ₂ O ₃ :	5 to 35%,
TiO ₂ +ZrO ₂ :	1 to 15%,
Na ₂ O:	0 to 30%,
K ₂ O:	5 to 30%, provided K ₂ O (%) ≥ Na ₂ O (%),
Li ₂ O:	0 to 15%,
MgO:	0 to 15%,
CaO:	0 to 15%,
SrO:	0 to 15%,
BaO:	0 to 15%,
ZnO:	0 to 15%,
B ₂ O ₃ :	0 to 15%,
P ₂ O ₅ :	0 to 15%,
Y ₂ O ₃ :	0 to 15%,

and which has an average linear expansion coefficient α_L of from $95 \times 10^{-7}/^{\circ}\text{C}$ to $130 \times 10^{-7}/^{\circ}\text{C}$ at from -30°C to 70°C , and which has a crystal or solid solution of $\text{Na}_{4-x}\text{K}_x\text{Al}_4\text{Si}_4\text{O}_{16}$ ($1 < x \leq 4$) precipitated therein.

Claim 23 (New): The optical filter according to Claim 22, wherein
MgO: 1 to 15%.

Claim 24 (New): The optical filter according to Claim 20, wherein the crystallized glass has an average linear expansion coefficient α_H of from $80 \times 10^{-7}/^{\circ}\text{C}$ to $155 \times 10^{-7}/^{\circ}\text{C}$ at from 190°C to 220°C .

Claim 25 (New): The optical filter according to Claim 20, wherein the crystallized glass has an average linear expansion coefficient α_H of from $110 \times 10^{-7}/^{\circ}\text{C}$ to $145 \times 10^{-7}/^{\circ}\text{C}$.

Claim 26 (New): The optical filter according to Claim 20, wherein the crystallized glass has a Young's modulus of at least 85 GPa.

Claim 27 (New): The optical filter according to Claim 20, wherein the crystallized glass has an absorptivity coefficient of at most 0.03 mm^{-1} for a light having a wavelength of 1550 nm.

Claim 28 (New): A crystallized glass for an optical filter substrate, which consists, as represented by mol% based on the following oxides, essentially of:

SiO ₂ :	35 to 60%,
Al ₂ O ₃ :	10 to 30%,
TiO ₂ +ZrO ₂ :	1 to 15%,
Na ₂ O:	4 to 20%,
K ₂ O:	4 to 20%,
CaO+SrO+BaO	0.1 to 10%,
MgO:	0 to 10%,
B ₂ O ₃ :	0 to 10%,
P ₂ O ₅ :	0 to 10%,

and which has an average linear expansion coefficient α_L of from $95 \times 10^{-7}/^{\circ}\text{C}$ to $130 \times 10^{-7}/^{\circ}\text{C}$ at from -30°C to 70°C , and which has a crystal or solid solution precipitated therein.

Claim 29 (New): The crystallized glass for an optical filter substrate according to Claim 28, wherein $\text{K}_2\text{O} (\%) \geq \text{Na}_2\text{O} (\%)$.

Claim 30 (New): The crystallized glass for an optical filter substrate according to Claim 28, wherein MgO: 1 to 15%.

Claim 31 (New): The crystallized glass for an optical filter substrate according to Claim 28, which has an average linear expansion coefficient α_H of from $80 \times 10^{-7}/^{\circ}\text{C}$ to $155 \times 10^{-7}/^{\circ}\text{C}$ at from 190°C to 220°C .

Claim 32 (New): The crystallized glass for an optical filter substrate according to Claim 28, which has an average linear expansion coefficient α_H of from $110 \times 10^{-7}/^{\circ}\text{C}$ to $145 \times 10^{-7}/^{\circ}\text{C}$.

Claim 33 (New): The crystallized glass for an optical filter substrate according to Claim 28, which has a Young's modulus of at least 85 GPa.

Claim 34 (New): The crystallized glass for an optical filter substrate according to Claim 28, which has an absorptivity coefficient of at most 0.03 mm^{-1} for a light having a wavelength of 1550 nm.

Claim 35 (New): An optical filter comprising
an optical filter substrate made of a crystallized glass for an optical filter substrate,
which consists, as represented by mol% based on the following oxides, essentially of:

SiO ₂ :	35 to 60%,
Al ₂ O ₃ :	10 to 30%,
TiO ₂ +ZrO ₂ :	1 to 15%,
Na ₂ O:	4 to 20%,
K ₂ O:	4 to 20%,
CaO+SrO+BaO	0.1 to 10%,
MgO:	0 to 10%,
B ₂ O ₃ :	0 to 10%,
P ₂ O ₅ :	0 to 10%,

and which has an average linear expansion coefficient α_L of from $95 \times 10^{-7}/^{\circ}\text{C}$ to $130 \times 10^{-7}/^{\circ}\text{C}$
at from -30°C to 70°C , and which has a crystal or solid solution precipitated therein; and
a dielectric multilayer film formed on the substrate.

Claim 36 (New): The optical filter according to Claim 35, wherein the crystallized
glass has $\text{K}_2\text{O} (\%) \geq \text{Na}_2\text{O} (\%)$.

Claim 37 (New): The optical filter according to Claim 35, wherein the crystallized
glass has MgO: 1 to 15%.

Claim 38 (New): The optical filter according to Claim 35, wherein the crystallized glass has an average linear expansion coefficient α_H of from $80 \times 10^{-7}/^{\circ}\text{C}$ to $155 \times 10^{-7}/^{\circ}\text{C}$ at from 190°C to 220°C .

Claim 39 (New): The optical filter according to Claim 35, wherein the crystallized glass has an average linear expansion coefficient α_H of from $110 \times 10^{-7}/^{\circ}\text{C}$ to $145 \times 10^{-7}/^{\circ}\text{C}$.

Claim 40 (New): The optical filter according to Claim 35, wherein the crystallized glass has a Young's modulus of at least 85 GPa.

Claim 41 (New): The optical filter according to Claim 35, wherein the crystallized glass has an absorptivity coefficient of at most 0.03 mm^{-1} for a light having a wavelength of 1550 nm.

Claim 42 (New): The crystallized glass for an optical filter substrate according to Claim 14, wherein $\text{K}_2\text{O} (\%) \geq 1.5 \text{ Na}_2\text{O} (\%)$.

Claim 43 (New): The optical filter according to Claim 22, wherein $\text{K}_2\text{O} (\%) \geq 1.5 \text{ Na}_2\text{O} (\%)$.

Claim 44 (New): The crystallized glass for an optical filter substrate according to Claim 29, wherein $\text{K}_2\text{O} (\%) \geq 1.5 \text{ Na}_2\text{O} (\%)$.

Claim 45 (New): The optical filter according to Claim 36, wherein the crystallized glass has $\text{K}_2\text{O} (\%) \geq 1.5 \text{ Na}_2\text{O} (\%)$.